



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/932,464	08/20/2001	Kai Nyman	4208-4004	3372

27123 7590 09/07/2005
MORGAN & FINNEGAN, L.L.P.
3 WORLD FINANCIAL CENTER
NEW YORK, NY 10281-2101

EXAMINER

NGUYEN, HAI V

ART UNIT PAPER NUMBER

2142

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/932,464

Applicant(s)

NYMAN ET AL.

Examiner

Hai V. Nguyen

Art Unit

2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 June 2005.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-65 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-65 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 08/20/01;05/07/03.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This Office Action is in response to the communication received on 17 June 2005.
2. Claims 53-65 are new.
3. Claims 1-65 are presented for examination.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Flanagin** et al. U.S. patent **6,128,661** in view of **Abdelaziz** et al. U.S. patent application publication # **2003/0041141 A1**.
6. As to claim 1, Flanagin, Integrated Communications Architecture On A Mobile Device, discloses a method to distribute a user-defined name of a user's wireless device to a plurality of member wireless devices in an ad hoc network, comprising:

 associating a member device address (*Fig. 4, device ID*) with a member-defined name, in a member name record (*Fig. 4, register 97 or separate file from register 97*) stored in at least one member device in the ad hoc network (*Flanagin, Fig. 4, items 91A, 95, col. 7, line 56 – col. 8, line 4*); However Flanagin does not explicitly disclose receiving a name distribution message at the at least one member device associating a

Art Unit: 2142

user device address with a user-defined name, said name distribution message including an operation code. Thus, the artisan would have been motivated to look into the related networking arts for potential methods and apparatus for implementing receiving a name distribution message at the at least one member device associating a user device address with a user-defined name, said name distribution message including an operation code.

In the same field of endeavor, Abdelaziz, related Peer-to-Peer Presence Detection, discloses in an analogous art, that *in Fig. 15 that a message may include a peer group credential of the probing (requesting) peer that may identify the probing peer to the message recipient. The destination address may be any peer within a region. In one embodiment, a discovery query message may be used to send a discovery request to find advertisements (e.g., for peers or peer groups). The discovery query may be sent as a query string (attribute, value) form (page 41, paragraphs [0666]-[0670]).*

Accordingly, it would have been obvious to one of ordinary skill in the networking art at the time the invention was made to have incorporated Abdelaziz's teachings of the peer receiving discovery query message including the sender's credential associating with the user-defined service name having queryID, type, threshold, PeerAdv, attribute, value (*Abdelaziz, page 41, paragraphs [0666]-[0670]*) with the teachings of Flanagin, for the purpose of taking care of some or all messaging aspects, caching, and expiring advertisements (*page 41, paragraph [0669]*).

Flanagin-Abdelaziz discloses selecting an operation in response to said operation code, to perform a corresponding one of a plurality of name distribution

Art Unit: 2142

functions relating to the user-defined name and the ad-hoc network (*Abdelaziz, and endpoint advertisement document may be published and obtained using either the core discovery service or by embedding it within other advertisements such as the peer advertisement (page 34, paragraph [0583]);*

Flanagin-Abdelaziz discloses comparing the user-defined name with the member-defined name to automatically resolve a name conflict (*Flanagin, Abstract, col. 2, lines 25-30; Abdelaziz, Abstract, pages 44-46, paragraphs [0739]-[0785]);*

Flanagin-Abdelaziz discloses storing the user device address in association with the user-defined name in a user name record in the at least one member device, if there is no name conflict (*Abdelaziz, Abstract, pages 44-46, paragraphs [0739]-[0785]);* and

Flanagin-Abdelaziz discloses performing the corresponding one of a plurality of name distribution functions relating to the user-defined name and the ad hoc network in response to the selecting step (*Abdelaziz, Abstract, the peer resolver protocol may be used by a service on a peer to interact with a service on another peer; may enable each peer to send and receive queries to find or search for peer, peer group, pipe or service specific information such as the state of a service or the state of a pipe endpoint; may perform authentication and verification of credentials and the dropping of rogue or incorrect messages (pages 33, paragraphs [0542]-[0543]; pages 44-46, paragraphs [0739]-[0785])).*

7. As to claim 2, Flanagin-Abdelaziz discloses, associating the user device address with a user-defined alternate name, in the name distribution message (*Abdelaziz, pages 44-46, paragraphs [0739]-[0785]);* and substituting the user-defined alternate name for

Art Unit: 2142

the user-defined name in the user name record, if there is a name conflict (*Abdelaziz, pages 45-46, paragraphs [0771]-[0785]*).

8. As to claim 3, Flanagan-Abdelaziz discloses, which further comprises:

associating the member device address with a member-defined alternate name, in the member name record stored in the at least one member device; and substituting the member-defined alternate name for the member-defined name in the member name record, if there is a name conflict (*Flanagin, Fig. 4, item 93*).

9. As to claim 4, Flanagan-Abdelaziz discloses, which further comprises:

distributing the name distribution message to the at least one member device (*Abdelaziz, page 41, paragraphs [0666]-[0670]*); comparing the user-defined name with the member-defined name in the at least one member device (*Abdelaziz, Abstract, pages 44-46, paragraphs [0739]-[0785]*); storing the user device address in association with the user-defined name in a user name record in the at least one member device, if there is no name conflict (*Abdelaziz, Abstract, pages 44-46, paragraphs [0739]-[0785]*); and using the user-defined name at the at least one member device, to access the user's wireless device in the ad hoc network (*Abdelaziz, Abstract, pages 44-46, paragraphs [0739]-[0785]*).

10. As to claim 5, Flanagan-Abdelaziz discloses, associating the user device address with a user-defined alternate name, in the name distribution message; and substituting the user-defined alternate name for the user-defined name in the user name record, if there is a name conflict (*the user has changed the device name and the new name is*

Art Unit: 2142

unique, then the desktop computer 4 modifies the partnership information at 16A or 16B to reflect the new name (Flanagin, col. 12, lines 19-26)).

11. As to claim 6, Flanagin-Abdelaziz discloses, associating the member device address with a member-defined alternate name, in the member name record stored in the at least one member device; and substituting the member-defined alternate name for the member-defined name in the member name record, if there is a name conflict *(the user has changed the device name and the new name is unique, then the desktop computer 4 modifies the partnership information at 16A or 16B to reflect the new name (Flanagin, col. 12, lines 19-26)).*

12. As to claim 7, Flanagin-Abdelaziz discloses, receiving the name distribution message from the user's device when connecting the user's wireless device to the ad hoc network *(Abdelaziz, page 41, paragraphs [0666]-[0670]).*

13. As to claim 8, Flanagin-Abdelaziz discloses, receiving the name distribution message from the user's device, which is located in a second ad hoc network, when connecting the second ad hoc network with the first said ad hoc network *(Abdelaziz, page 41, paragraphs [0666]-[0670]).*

14. As to claims 9-12, Flanagin-Abdelaziz discloses the time stamp when a device entering the ad hoc wireless networking in the advertisement message *(Abdelaziz, page 48, [0810]; Time-To-Live (TTL), page 43, paragraph [0731]).*

15. As to claim 13, Flanagin-Abdelaziz discloses, including hop count value and a maximum hop count in the name distribution message; incrementing the current hop count value in the at least one member device; and displaying the user-defined name in

the at least one member device if the current hop count value is not greater than the maximum hop count value (*Abdelaziz, page 41, paragraphs [0666]-[0670]*).

16. As to claim 14, Flanagin-Abdelaziz discloses, associating the user device address with a user-defined permission to display, in the name distribution message; and granting to the plurality of member devices, permission to display the user-defined name (*Abdelaziz, page 15, paragraphs [0183]-[0206]*).

17. As to claim 15, Flanagin-Abdelaziz discloses, storing a member device address in a member name record stored in a plurality of member devices in the ad hoc network; receiving a name distribution message associating the member device address with a delete device indication; distributing the name distribution message associating the member device address with the delete device indication, to the plurality of member devices in the ad hoc network; and deleting the member record from the plurality of member devices in the ad hoc network (*Abdelaziz, page 15, paragraphs [0183]-[0206]*).

18. As to claim 16, Flanagin-Abdelaziz discloses, receiving a name distribution message associating the member device address with a change name operation code; distributing the name distribution message to the at least one member device; selecting a change name operation to perform in response to said change name operation code in said at least one member device; and changing the member-defined name in the member record of the at least one member device in response to said selecting step (*Abdelaziz, page 15, paragraphs [0183]-[0206]*).

19. As to claim 17, Flanagin-Abdelaziz discloses, associating a member device address with a member-defined name and a name display attribute, in a member name

Art Unit: 2142

record stored in a plurality of member devices in the ad hoc network; receiving a name distribution message associating the member device address with a change display attribute operation code; distributing the name distribution message to the plurality of member devices; selecting a change display attribute operation to perform in response to said change display attribute operation code in said plurality of member devices; and changing the name display attribute of the member-defined name in the member record of the plurality of member devices in response to said selecting step (*Abdelaziz, page 15, paragraphs [0183]-[0206]*).

20. As to claim 18, Flanagan-Abdelaziz discloses, associating a member device address with a member-defined name and a name display attribute, in a member name record stored in a plurality of member devices in the ad hoc network; receiving a name distribution message associating the member device address with a name flash display attribute operation code; distributing the name distribution message to the plurality of member devices; selecting a name flash display attribute operation to perform in response to said name flash display operation code in said plurality of member devices; and flashing the display of the member-defined name in the plurality of member devices in response to said selecting step (*Abdelaziz, page 15, paragraphs [0183]-[0206]*).

21. As to claim 19, Flanagan-Abdelaziz discloses associating a member device address with a security attribute, in a member name record stored in a plurality of member devices in the ad hoc network; receiving a name distribution message associating the member device address with a change security attribute operation code; distributing the name distribution message to the plurality of member devices; selecting

Art Unit: 2142

a change security attribute operation to perform in response to said change security attribute code operation code; and changing the security attribute in the member record in the plurality of member devices in response to said selecting step (*Abdelaziz, page 38, paragraphs [0626]-[0641]*).

22. As to the claim 20, Flanagin-Abdelaziz discloses associating a member device address with a member-defined name and a security attribute, in a member name record stored in a plurality of member devices in the ad hoc network; receiving a name distribution message associating the member device address with an authorization list of member devices and a change security attribute operation code; distributing the name distribution message to the plurality of member devices; selecting a change security attribute operation to perform in response to said change security attribute operation code; and changing the security attribute of a member device, if it is listed on the authorization list in response to said selecting step (*Abdelaziz, page 38, paragraphs [0626]-[0641]; page 41, paragraphs [0666]-[0670]*).

23. As to the claim 21, Flanagin-Abdelaziz discloses all limitations similar to those of claim 1 except for two limitations of "distributing a name distribution message associating a user device address with a user-defined name and a user-defined alternate name, to the at least one member device; selecting an operation in response to said operation code to perform a corresponding one of plurality of name distribution functions relating to the ad hoc network; comparing the user-defined name with the member-defined name in the at least one member device to automatically resolve a name conflict; storing the user device address in association with the user-defined

Art Unit: 2142

name as an effective user name in a user name record in the at least one member device, if there is a name conflict; storing the user device address in association with the user-defined alternate name as the effective user name in the user name record in the at least one member device, if there is a name conflict; and performing the corresponding one of the plurality of name distribution functions relating to the effective user name and the ad hoc network in response to said selecting step." (*Abdelaziz, page 32, par. [0507] – page 34, par. [0567] ; page 38, paragraphs [0626]-[0641]*).

24. Claims 22 has similar limitations of claim 21; thus, it is rejected under the same rationale as in claim 21.

25. As to claim 23, Flanagan-Abdelaziz discloses, associating the member device address with the member-defined name and an annunciator attribute, in the member name record; receiving a name distribution message associating the member device address with a change display attribute indication; distributing the name distribution message associating the member device address with a change display attribute indication, to the at least one member devices; and changing the annunciator attribute of the member-defined name in the member record (*Abdelaziz, page 37, paragraph 0616] – page 39, paragraph [0652]; page 41, paragraphs [0666]-[0670]*).

26. As to claim 24, Flanagan-Abdelaziz discloses, wherein said annunciator attribute controls the font of the member-defined name as it is displayed (*Abdelaziz, page 37, paragraph 0616] – page 39, paragraph [0652]; page 41, paragraphs [0666]-[0670]*).

Art Unit: 2142

27. As to claim 25, Flanagan-Abdelaziz discloses, wherein said annunciator attribute controls the color of the member-defined name as it is displayed (*Abdelaziz, page 37, paragraph 0616*) – *page 39, paragraph [0652]; page 41, paragraphs [0666]-[0670]*).

28. As to claim 26, Flanagan-Abdelaziz discloses, wherein said annunciator attribute controls the animation of the member-defined name as it is displayed (*Abdelaziz, page 37, paragraph 0616*) – *page 39, paragraph [0652]; page 41, paragraphs [0666]-[0670]*).

29. As to claim 27, Flanagan-Abdelaziz discloses, wherein said annunciator attribute controls a sound played in conjunction with the display of the member-defined name (*Abdelaziz, page 37, paragraph [0616] – page 39, paragraph [0652]; page 41, paragraphs [0666]-[0670]*).

30. Claim 28 has similar limitations of claim 1; thus, it is rejected under the same rationale as in claim 1.

31. Claim 29 has similar limitations of claim 1; thus, it is rejected under the same rationale as in claim 1.

32. Claim 30 has all limitations of claim 1 except for the limitation of “connecting a second ad hoc network containing a user device, to the first ad hoc network”. Abdelaziz discloses a schema for a device in an ad hoc wireless local network to discover services provided by other device in the peer-to-peer network (*page 37, paragraph [0616] – page 39, paragraph [0652]*).

33. Claims 31-36 are similar limitations of claims 9-14; therefore, they are rejected for the same rationale as in claims 9-14

Art Unit: 2142

34. As to claim 37, Flanagan-Abdelaziz discloses wherein the wireless devices use a IEEE 802.11 Wireless LAN standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

35. As to claim 38, Flanagan-Abdelaziz discloses, wherein the wireless devices use the High Performance Radio Local Area Network (HIPERLAN) standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

36. As to claim 39, Flanagan-Abdelaziz discloses, wherein the wireless devices use the Bluetooth standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

37. As to claim 40, Flanagan-Abdelaziz discloses, wherein the wireless devices use the Digital Enhanced Cordless Telecommunications (DECT) standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

38. As to claim 41, Flanagan-Abdelaziz discloses, wherein the wireless devices use the Shared Wireless Access Protocol (SWAP) standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

39. As to claim 42, Flanagan-Abdelaziz discloses, wherein the wireless devices use the IEEE 802.15 Wireless Personal Area Network (WPAN) standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

40. As to claim 43, Flanagan-Abdelaziz discloses, wherein the wireless devices use the Infrared Data Association (IrDA) standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

Art Unit: 2142

41. As to claim 44, Flanagan-Abdelaziz discloses, wherein the wireless devices use the Multimedia Mobile Access Communication (MMAC) Systems standard (*Abdelaziz, page 9, paragraph [0120] –[0122]; page 19, paragraph [0234]*).

42. Claim 45 is corresponding system claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

43. Claim 46 is similar limitations of claim 1; therefore, it is rejected under the same rationale as in claim 1.

44. Claim 47 is corresponding computer readable medium claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

45. Claim 48 is similar limitations of claim 46; therefore, it is rejected under the same rationale as in claim 46.

46. Claim 49 has all limitations of claim 1 except for the limitation of “appending the new name table to the existing name table to form a composite name table” which Abdelaziz discloses the rendezvous peers keep a list of known peers and peer groups (*page 37, [0620]*).

47. Claim 50 has similar limitations of claim 1; therefore, it is rejected under the same rationale as in claim 1.

48. Claim 51 has similar limitations of claim 49; therefore, it is rejected under the same rationale as in claim 49.

49. Claim 52 has similar limitations of claim 50; therefore, it is rejected under the same rationale as in claim 50.

Art Unit: 2142

50. As to claim 53, Flanagan-Abdelaziz discloses using the user-defined name at the at least one member device to access the user's wireless device in the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

51. As to claim 54, Flanagan-Abdelaziz discloses said one of a plurality of name information distribution functions being adding a new device to the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

52. As to claim 55, Flanagan-Abdelaziz discloses said one of a plurality of name information distribution functions being deleting a new device to the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

53. As to claim 56, Flanagan-Abdelaziz discloses said one of a plurality of name information distribution functions being changing a new device to the ad hoc network.

54. As to claim 57, Flanagan-Abdelaziz discloses said one of a plurality of name information distribution functions being substituting a new member name record in the at least one member device (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

55. As to claim 58, Flanagan-Abdelaziz discloses said one of a plurality of name information distribution functions being specifying security attributes for distributing a name in the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

56. As to claim 59, of claim 53, further comprises: said one of a plurality of name information distribution functions being specifying display attributes for displaying a name in the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

57. As to claim 60, Flanagan-Abdelaziz discloses said one of a plurality of name information distribution functions being specifying name flash display attributes for

Art Unit: 2142

remotely flashing a displayed name in the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

58. Claim 61 has similar limitations of claim 53; therefore, it is rejected under the same rationale as in claim 53.

59. As to claim 62, Flanagan-Abdelaziz discloses an interface couple to the memory, for using the user-defined name to access the user's wireless device in the ad hoc network (*Abdelaziz, page 22, paragraphs [0278] –[0288]*).

60. Claim 63 has similar limitations of claim 53; therefore, it is rejected under the same rationale as in claim 53.

61. Claim 64 has similar limitations of claim 53; therefore, it is rejected under the same rationale as in claim 53.

62. Claim 65 has similar limitations of claim 53; therefore, it is rejected under the same rationale as in claim 53.

63. Further references of interest are cited on Form PTO-892, which is an attachment to this action.

Conclusion

64. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai V. Nguyen whose telephone number is 571-272-3901. The examiner can normally be reached on 6:00-3:30 Mon-Fri.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2142

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hai V. Nguyen
Examiner
Art Unit 2142




ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER